## IN THE CLAIMS:

- 1. (Original) A printer cartridge comprising a series of magnetic elements selected to counterbalance a series of magnetic elements on a printer, and each positioned to lie adjacent to a corresponding magnetic field detecting switch on the printer, where the position of the magnetic elements on the cartridge are located so as to change a condition of the corresponding magnetic field detecting switch when the cartridge is inserted into the printer.
- (Original) The printer cartridge of claim 1 wherein the magnetic field detecting switch comprises a reed switch.
- (Original) The printer cartridge of claim 1 wherein each magnetic field detecting switch comprises an element of a cartridge identification code.
- (Original) A printer cartridge identification system comprising:

   a printer cartridge having a plurality of magnetic elements disposed opposite a

   plurality of magnetic field detecting switches located on a printer; and
- a printer having the plurality of magnetic field detecting switches corresponding to the plurality of magnetic elements on the printer cartridge and a plurality of fixed magnetic elements adjacent the plurality of magnetic field detecting switches, each fixed magnetic element biasing one of the magnetic field detecting switches to a first position; and

where the magnetic field detecting switches cooperate to define a printer cartridge identification code.

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- 5. (Original) The printer cartridge identification system of claim 4 wherein the magnetic elements on the printer cartridge are of a size and strength to counterbalance the fixed magnetic elements on the printer when the cartridge is located in the printer.
  - (Original) A printer cartridge identifying printer comprising:

a magnetic field detecting switch adjacent a printer cartridge port and adapted to switch from a first position to a second position when a magnet on the printer cartridge is brought in proximity with the magnetic field detecting switch;

circuitry on the printer for evaluating the position of the magnetic field detecting switch and determining whether the cartridge in the printer is of a specific type; and

a fixed magnetic element adjacent the magnetic field detecting switch to bias the magnetic field detecting switch to a predetermined position.

7. (Original) A printer cartridge identification system comprising:

a printer comprising a plurality of magnetic field detecting switches adjacent to a plurality of fixed magnetic elements on the printer; each fixed magnetic element having a magnetic field of a predetermined polarity and each magnetic field detecting switch having a first biased position and a neutral position; and

a printer cartridge having a plurality of magnetic elements; each magnetic element having a magnetic field of identical polarity to a corresponding fixed magnetic element on the printer, whereby the magnetic field of the magnetic element on the printer cartridge interacts with the magnetic field of its corresponding fixed magnetic element on the printer to allow return of the adjacent magnetic field detecting switch to the neutral position from the first biased position.

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- (Original) The printer cartridge identification system of claim 7 where a combination of magnetic field detecting switches define a printer cartridge identification code.
- 9. (Original) The printer cartridge identification system of claim 8 where the printer further comprises circuitry for evaluating the printer cartridge identification code by reading the position of each magnetic field detecting switch.
- (Original) The printer cartridge identification system of claim 7 where the magnetic field detecting switches comprise reed switches.
  - (Currently Amended) A device comprising:
     printer cartridge assembly; and
- a first [magnetic element] <u>magnet</u> coupled to the printer cartridge assembly, the first [magnetic element] <u>magnet</u> selected to counterbalance a second [magnetic element] <u>magnet</u> on a printer, the first and second [magnetic elements] <u>magnets</u> positioned to lie adjacent to a [corresponding] magnetic field detecting switch on the printer, [where] <u>wherein</u> the position of the first [magnetic element] <u>magnet</u> on the cartridge is located so as to change a condition of the [corresponding] magnetic field <u>sensed by the magnetic field</u> detecting switch when the cartridge is inserted into the printer.
- (Previously Presented) The device of claim 11 wherein the magnetic field detecting switch comprises a reed switch.
- 13. (Currently Amended) The device of claim 11 wherein the [corresponding] magnetic field detecting switch is an element of a cartridge identification code.

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14. (Currently Amended) A printer cartridge identification system comprising:
a printer cartridge including a first [magnetic element disposed opposite a first magnetic field detecting switch located on a printer] magnet; and

a printer including [the] a first magnetic field detecting switch [corresponding to the first magnetic element on the printer cartridge] and a [fixed magnetic element] second magnet adjacent the first magnetic field detecting switch, the [fixed magnetic element] second magnet biasing the [first] magnetic field detecting switch to a first position, [where the first magnetic field detecting switch to a printer cartridge identification code] wherein the first magnet changes the magnetic field sensed by the magnetic field detecting switch.

- 15. (Currently Amended) The printer cartridge identification system of claim 14 wherein the first [magnetic element] magnet on the printer cartridge is of a size and strength to counterbalance the [fixed magnetic element] second magnet on the printer when the cartridge is located in the printer.
  - (Currently Amended) A printer cartridge identification system comprising:
     a printer including a first magnetic field detecting switch,
- a [fixed magnetic element] first magnet adjacent the first magnetic field detecting switch on the printer, the [fixed magnetic element] first magnet having a magnetic field of a predetermined polarity and the magnetic field detecting switch having a first biased position and a neutral position; and

a printer cartridge having a [first magnetic element; the first magnetic element] second magnet, the second magnet having a magnetic field of identical polarity to the [fixed

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magnetic element] <u>first magnet</u> on the printer, whereby the magnetic field of the [first magnetic element on the printer cartridge] <u>second magnet</u> interacts with the magnetic field of the [fixed magnetic element] <u>first magnet</u> on the printer to allow return of the [adjacent first] magnetic field detecting switch to the neutral position from the first biased position.

- 17. (Currently Amended) The printer cartridge identification system of claim 16 where the position of the [first] magnetic field detecting switch contributes to define a printer cartridge identification code.
  - 18. (Currently Amended) A printer cartridge comprising:
    - a printer cartridge housing; and
- a first [magnetic element coupled] <u>magnet attached</u> to the printer cartridge housing, the first [magnetic element] <u>magnet</u> positioned to lie adjacent to a [corresponding] magnetic field detecting switch <u>and a second magnet</u> on a printer, [where] <u>when the printer cartridge is inserted into the printer, wherein</u> the position of the first [magnetic element] <u>magnet</u> on the cartridge is located so as to change a condition of the [corresponding] magnetic field <u>detected by the magnetic field</u> detecting switch when the cartridge is inserted into the printer.
- 19. (Currently Amended) The printer cartridge of claim 18 wherein the magnetic field of the first [magnetic element] magnet causes the [first] magnetic field detecting switch to change from a first position to a second position when the printer cartridge is inserted into the printer.

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20. (Currently Amended) The printer cartridge of claim 18 wherein the position of the [first] magnetic field detecting switch contributes to define a printer cartridge identification code.